# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

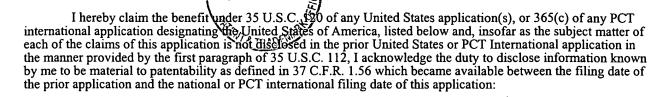
## **Declaration for Patent Application**

a named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name;

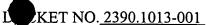
I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 3 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

	APPARATUS AN	D METHOD FOR	PACKET SCHEDULING						
the spe	ecification of which (	check one)							
[]	is attached hereto.								
[X]	was filed on June	<u>6, 2000</u> as U	Jnited States Application						
	Number or PCT In	nternational Applica	ation No. 09/588,619						
	and was amended	on	(if applicable).						
includi	I hereby state that ing the claims, as am	I have reviewed an lended by any amen	d understand the contents of the aboutment referred to above.	ve-ide	ntified	spec	cifica	tion,	
define	I acknowledge the d in 37 C.F.R. §1.56		formation which is known by me to	be ma	terial t	o pat	ental	oility	as
any for	ent or inventor's cert y other than the Unit	rificate or 365(a) of red States of Americ patent or inventor's	ts under 35 U.S.C. 119(a)-(d) or 36: any PCT international application v ca, listed below and have also identi certificate, or of any PCT internation iority is claimed:	vhich d fied be	lesigna low, b	ted a	it leas	st one	box,
		<u>Pr</u>	ior Foreign Application(s)	N	ority ot imed		Cert Copy ES		
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I hereb	y claim the benefit u	ınder 35 U.S.C. §11	9(e) of any United States provision	al appl	ication	ı(s) l:	isted	belov	v.
	3,148 cation Number)	· · · · · · · · · · · · · · · · · · ·	September 9, 1999 (Filing Date)	. , .			<del></del>		
(Appli	cation Number)		(Filing Date)	····					



(Application Serial No.	)	(Filing date)	(Status: patented, pending, abandoned)
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(Application Serial No.	)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.	)	(Filing date)	(Status: patented, pending, abandoned)
As a named in Hamilton, Brook, Smi Customer No. 210	th & Reyn	reby appoint the attorney olds, P.C., Two Militia I	s and/or agents associated with  Orive, Lexington, Massachusetts 02421-4799
and			
to prosecute this application	ation and to	transact all business in the	ne Patent and Trademark Office connected therewith.
Please send corresp	pondence to	):	
[X] Customer No.	•		K, SMITH & REYNOLDS, P.C.
or		Two Militia Drive Lexington, MA 02421	<b>-4799</b>
[ ] Address as fol		Lexington, MA 02421	
Direct telepho	ne calls to:		Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540
Direct telepho Direct facsimi  I hereby decla made on information ar knowledge that willful	ne calls to: les to: re that all st nd belief are false statem 8 of the Uni	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  atements made herein of believed to be true; and the like so made ited States Code and that	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  my own knowledge are true and that all statements further that these statements were made with the are punishable by fine or imprisonment, or both, under
Direct telepho Direct facsimi  I hereby decla made on information ar knowledge that willful Section 1001 of Title 1	ne calls to: les to: re that all st nd belief are false statem 8 of the Uni	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  atements made herein of believed to be true; and the like so made ited States Code and that	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  my own knowledge are true and that all statements further that these statements were made with the are punishable by fine or imprisonment, or both, under
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Direct telepho Direct facsimi  I hereby decla made on information ar knowledge that willful Section 1001 of Title 1 of the application or an	ne calls to: les to: re that all st nd belief are false statem 8 of the Uni y patent issi	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  atements made herein of e believed to be true; and tents and the like so made ited States Code and that ued thereon.	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  my own knowledge are true and that all statements further that these statements were made with the are punishable by fine or imprisonment, or both, under such willful false statements may jeopardize the validity
Direct telepho Direct facsimi  I hereby declar made on information ar knowledge that willful Section 1001 of Title 15 of the application or an Full name of sole or first inventor	ne calls to: les to: re that all st nd belief are false statem 8 of the Uni y patent issu  William	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  atements made herein of e believed to be true; and tents and the like so made ited States Code and that ued thereon.  J. Dally  ernier Place	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  my own knowledge are true and that all statements further that these statements were made with the e are punishable by fine or imprisonment, or both, under such willful false statements may jeopardize the validity
Direct telephon Direct facsimi  I hereby declar made on information at knowledge that willful Section 1001 of Title 1 for the application or an	ne calls to: les to: re that all st nd belief are false statem 8 of the Uni y patent issu  William	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  atements made herein of believed to be true; and the like so made ited States Code and that used thereon.  J. Dally  ernier Place d, California 94035	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  my own knowledge are true and that all statements further that these statements were made with the e are punishable by fine or imprisonment, or both, under such willful false statements may jeopardize the validity  Date
Direct telephon Direct facsimi  I hereby declar made on information at knowledge that willful Section 1001 of Title 1 for the application or an	ne calls to: les to: re that all st nd belief are false statem 8 of the Uni y patent issi  William  1068 Vo Stanford U.S.A.	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  atements made herein of e believed to be true; and tents and the like so made ited States Code and that ued thereon.  J. Dally  ernier Place d, California 94035	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  my own knowledge are true and that all statements further that these statements were made with the e are punishable by fine or imprisonment, or both, under such willful false statements may jeopardize the validity

•	NOV 1 5 - 100 A 3-	
Full name of second join inventor, if any	it READEMENT OF THE ADDITIONS	
Inventor's Signature		Date
Residence	7 Daniels Road	·
	Bedford, Massachusetts 01730	
Citizenship	U.S.A.	
	As above	
Full name of third joint		
inventor, if any	Paul A. Beliveau	
Inventor's Signature		Date
Residence	5 Garrison Road	
	Arlington, Massachusetts 02474	
Citizenship	U.S.A.	· · · · · · · · · · · · · · · · · · ·
Post Office Address	As above	10
Full name of fourth joint	<del></del>	
inventor, if any	William F. Mann	
Inventor's Signature		Date
Residence	23 Checkerberry Circle	
	Sudbury, Massachusetts 01776	
Citizenship	U.S.A.	
Post Office Address		
Full name of fifth joint		
inventor, if any	Larry R. Dennison	
Inventor's Signature		Date
Residence	505 Nahatan Street	
	Norwood, Massachusetts 02062	
Citizenship	U.S.A.	
Post Office Address	As above	
		· · · · · · · · · · · · · · · · · · ·





# Declaration for Patent Application

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a named inventor, I hereby declare that:

residence, post office address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 3 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

APPARATUS	S AND METHOD FOR	PACKET SCHEDULING								
the specification of wh	ich (check one)	<del> </del>						<del></del>		
[] is attached her	reto.									
[X] was filed on <u>J</u>	was filed on June 6, 2000 as United States Application									
Number or PC	T International Applica	ation No. 09/588,619								
and was amen	ded on	(if applicable).								
		d understand the contents of the ab	ove-ide	ntified	spec	cifica	tion,			
I acknowledge defined in 37 C.F.R. §1		formation which is known by me to	be ma	terial t	o pat	entab	ility	as		
for patent or inventor's country other than the any foreign application	certificate or 365(a) of United States of Americ	ts under 35 U.S.C. 119(a)-(d) or 36 any PCT international application ca, listed below and have also ident a certificate, or of any PCT internationity is claimed:	which o ified be	lesigna	ited a	t leas	st one	box,		
	<u>Pr</u>	ior Foreign Application(s)	N	ority lot imed		Cert Copy ES		? O		
(Number)	(Country)	(Day/Month/Year filed)	_ [	]	[	)	[	]		
(Number)	(Country)	(Day/Month/Year filed)	_ [	]	[	]	[	]		
(Number)	(Country)	(Day/Month/Year filed)	_ [	]	[	]	[	]		
I hereby claim the bene	efit under 35 U.S.C. §1	19(e) of any United States provision	nal appl	lication	ı(s) l	isted	belov	v.		
60/153,148 (Application Number)		September 9, 1999 (Filing Date)			<u>,</u>					
(Application Number)		(Filing Date)				,•		<del></del>		

#3

-2-

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information known by me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
As a named inventor, I Hamilton, Brook, Smith & Re Customer No. 21005,	I hereby appoint the attorneys a eynolds, P.C., Two Militia Dr	and/or agents associated with rive, Lexington, Massachusetts 02421-4799
and		,
to prosecute this application and	d to transact all business in the	Patent and Trademark Office connected therewith.
Please send correspondence	ce to:	
[X] Customer No.	21005	CAMBIN A DEVINOI DO D C
or	Two Militia Drive Lexington, MA 02421-4	SMITH & REYNOLDS, P.C. 799
	Two Militia Drive	
or [ ] Address as follows:	Two Militia Drive Lexington, MA 02421-4	799
or  [ ] Address as follows:  Direct telephone calls	Two Militia Drive	Telephone No.: 781-861-6240
or  [ ] Address as follows:  Direct telephone calls  Direct facsimiles to:  I hereby declare that a made on information and belief knowledge that willful false sta	Two Militia Drive Lexington, MA 02421-4  to: James M. Smith, Esq.  James M. Smith, Esq.  Il statements made herein of me for are believed to be true; and futements and the like so made a United States Code and that su	Telephone No.: 781-861-6240
or  [ ] Address as follows:  Direct telephone calls  Direct facsimiles to:  I hereby declare that a made on information and belief knowledge that willful false sta Section 1001 of Title 18 of the	Two Militia Drive Lexington, MA 02421-4  to: James M. Smith, Esq.  James M. Smith, Esq.  Il statements made herein of me for are believed to be true; and futements and the like so made a United States Code and that su	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  The sy own knowledge are true and that all statements arther that these statements were made with the are punishable by fine or imprisonment, or both, under
or  [ ] Address as follows:  Direct telephone calls Direct facsimiles to:  I hereby declare that a made on information and belief knowledge that willful false sta Section 1001 of Title 18 of the of the application or any patent  Full name of sole	Two Militia Drive Lexington, MA 02421-4  to: James M. Smith, Esq.  James M. Smith, Esq.  Il statements made herein of me for are believed to be true; and futements and the like so made a United States Code and that su	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  The system of
or  [ ] Address as follows:  Direct telephone calls Direct facsimiles to:  I hereby declare that a made on information and belief knowledge that willful false sta Section 1001 of Title 18 of the of the application or any patent  Full name of sole or first inventor Will Inventor's Signature A.	Two Militia Drive Lexington, MA 02421-4  to: James M. Smith, Esq.  James M. Smith, Esq.  Il statements made herein of me for are believed to be true; and futements and the like so made a United States Code and that su issued thereon.	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  The sy own knowledge are true and that all statements arther that these statements were made with the are punishable by fine or imprisonment, or both, under
or  [ ] Address as follows:  Direct telephone calls Direct facsimiles to: _  I hereby declare that a made on information and belief knowledge that willful false sta Section 1001 of Title 18 of the of the application or any patent  Full name of sole or first inventor Will Inventor's Signature / 268  Residence 1068	Two Militia Drive Lexington, MA 02421-4  to: James M. Smith, Esq.  James M. Smith, Esq.  Il statements made herein of mf are believed to be true; and futements and the like so made a United States Code and that su issued thereon.	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  The statements are true and that all statements are punishable by fine or imprisonment, or both, under and willful false statements may jeopardize the validity
or  [ ] Address as follows:  Direct telephone calls Direct facsimiles to:  I hereby declare that a made on information and belief knowledge that willful false sta Section 1001 of Title 18 of the of the application or any patent  Full name of sole or first inventor Will Inventor's Signature A.  Residence 1068  Stan	Two Militia Drive Lexington, MA 02421-4  to: James M. Smith, Esq.  James M. Smith, Esq.  Il statements made herein of me for are believed to be true; and futements and the like so made a United States Code and that su issued thereon.	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  The system of
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10V 1 5 2000 -3-

Full name of second joint inventor, if any		
inventor, if any	Philip P. CAADEMARIA	
Inventor's Signature		_ Date
Residence	7 Daniels Road	
	Bedford, Massachusetts 01730	
Citizenship	U.S.A.	
Post Office Address	As above	
Full name of third joint	- A O O A	
inventor, if any		- 0/1/ / 200
Inventor's Signature		Date 8 November 2000
Residence		05452 P.B.11/8/A
Civili-	Jericho, Vermont 05465 Essex Sct. VT	USYS Z P.D.11/1/A
_	U.S.A.	
Post Office Address	As above	
Full name of fourth joint		
inventor, if any	William F. Mann	
Inventor's Signature		_ Date
Residence	23 Checkerberry Circle	
	Sudbury, Massachusetts 01776	
Citizenship	U.S.A.	
Post Office Address		
Full name of fifth joint		
inventor, if any	Larry R. Dennison	
•		Date
Residence	505 Nahatan Street	
	Norwood, Massachusetts 02062	
	U.S.A.	
Post Office Address		

# NOV 1 5 2000 L

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

### **Declaration for Patent Application**

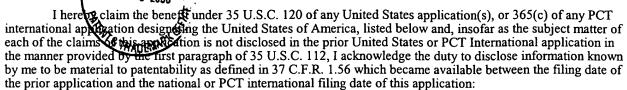
named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 3 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

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the spe	ecification of which	(check one)							
[]	is attached hereto	•							
[X]	was filed on June	e 6, 2000 as U	Jnited States Application						
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define	I acknowledge the d in 37 C.F.R. §1.56	e duty to disclose int	formation which is known by me to	be mat	erial to	pate	entabi	ility a	ıS
country any for	ent or inventor's cert y other than the Unit	tificate or 365(a) of ted States of Americ patent or inventor's lication on which pri	ts under 35 U.S.C. 119(a)-(d) or 36 any PCT international application va, listed below and have also identicertificate, or of any PCT internationity is claimed:  ior Foreign Application(s)	which d fied bel onal ap Pric	esignation, by	ted a che on ha	t leas cking	t one the l a fili ified Filed	oox, ng
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I hereb	y claim the benefit t	under 35 U.S.C. §11	9(e) of any United States provision	al appli	cation	(s) li	sted b	elow	<b>′.</b>
	3,148	. <del>.</del>	September 9, 1999						
(Appli	cation Number)		(Filing Date)						
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(Application Serial No	o.)	(Filing date)	(Status: patented, pending, abandoned)
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(Application Serial No	.)	(Filing date)	(Status: patented, pending, abandoned)
	ith & Reyn		ys and/or agents associated with Drive, Lexington, Massachusetts 02421-4799
and		·	
to prosecute this applic	cation and to	transact all business in t	the Patent and Trademark Office connected therewith.
Please send corres	pondence to	0:	
[X] Customer No	-	21005	
		HAMILTON, BROOD Two Militia Drive	K, SMITH & REYNOLDS, P.C.
		I WU MIIIIII DI IVE	·
or		Lexington, MA 02421	1-4799
Or	llower		1-4799
or [ ] Address as fol	llows:		1-4799
[ ] Address as fol		Lexington, MA 0242	
[ ] Address as fol			1-4799  Telephone No.: 781-861-6240
[ ] Address as fol	one calls to:	Lexington, MA 0242	
Direct telephon Direct facsimi  I hereby declar on information and beliate willful false statem 1001 of Title 18 of the application or any pate	one calls to: iles to: are that all st ief are believents and the United State ont issued the	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  attements made herein of ved to be true; and further like so made are punish es Code and that such with the contract of the	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  The statements made and that all statements made are that these statements were made with the knowledge able by fine or imprisonment, or both, under Section allful false statements may jeopardize the validity of the
Direct telephon Direct facsimi  I hereby declar on information and beliate willful false statem 1001 of Title 18 of the application or any pate	one calls to: iles to: are that all st ief are believents and the United State ont issued the	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  attements made herein of ved to be true; and further like so made are punish es Code and that such with the contract of the	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  The system of the statements of the statements which is the statements were made with the knowledge able by fine or imprisonment, or both, under Section
Direct telephon Direct facsimi  I hereby declar on information and belighed that willful false statem 1001 of Title 18 of the application or any pate	iles to: are that all st ief are believents and the United State ant issued the	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  attements made herein of ved to be true; and further like so made are punishes Code and that such with ereon.	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  The statements made and that all statements made are that these statements were made with the knowledge able by fine or imprisonment, or both, under Section allful false statements may jeopardize the validity of the
Direct telephon Direct facsimi  I hereby declar on information and belighed willful false statem 1001 of Title 18 of the application or any pate  Full name of sole or first inventor	one calls to: iles to: are that all st ief are believed the United State ont issued the William	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  satements made herein of ved to be true; and further like so made are punish es Code and that such with ereon.	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  The statements of the statements of the statements were made with the knowledge able by fine or imprisonment, or both, under Section allful false statements may jeopardize the validity of the
Direct telephon Direct facsiming I hereby declar on information and belief that willful false statem 1001 of Title 18 of the application or any pate or first inventor	iles to: are that all st ief are believents and the United State out issued the William	James M. Smith, Esq.  James M. Smith, Esq.  James M. Smith, Esq.  satements made herein of ved to be true; and further like so made are punishes Code and that such with ereon.	Telephone No.: 781-861-6240  Facsimile No.: 781-861-9540  The statements of the statements of the statements were made with the knowledge able by fine or imprisonment, or both, under Section allful false statements may jeopardize the validity of the
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Full name of second join	nt Signature of the Control of the C	TE TRADEMARK	
inventor, if any			
Inventor's Signature	Shilly X Coay	Date	1116/00
Residence	7 Daniels Road		
	Bedford, Massachusetts 01730		
Citizenship	U.S.A.		
	As above	. —	
Full name of third joint			
inventor, if any	Paul A. Beliveau		
Inventor's Signature		Date	
Residence	5 Garrison Road	· · · · · · · · · · · · · · · · · · ·	
	Arlington, Massachusetts 02474		
Citizenship	U.S.A.		
	As above		
Full name of fourth joint			
inventor, if any	William F. Mapn		
Inventor's Signature	William F. Man	Date	11/6/00
Residence	23 Checkerberry Circle		
	Sudbury, Massachusetts 01776		
Citizenship	U.S.A.		
Post Office Address			
Full name of fifth joint			
inventor, if any		· · · · · · · · · · · · · · · · · · ·	
Inventor's Signature	Lary Rober	Date	11/7/00_
Residence			
	Norwood, Massachusetts 02062		
Citizenship	U.S.A.		
Post Office Address	As above		